

Abstract of the Disclosure

5 This invention provides methods of delivering an antigen
to an Class I or Class II MHC receptors to induce
immunity against the antigen in a subject having a
disease. This invention also provides methods of
delivering an antigen to an Class II or class I MHC
receptor to suppress immunity against the antigen in a
subject having a disease. the ligand-binding APCs to
bind to the ligand-coated Ag/ATP-filled particles and APC
phagolysosomes to ingest the ligand-coated Ag/ATP-filled
11 particles to facilitate transfer of the ingested antigen
from the phagolysosomes into cytoplasm such that the
antigen is delivered to a Class II MHC receptor and is
expressed on the surface of the APCs (Ag-APCs); d)
incubating the Ag-APCs of step (c) with lymphocytes
17 previously removed from the subject having the disease;
and e) administering the incubated lymphocytes of step
(d) to the subject so as induce Class II MHC presentation
and elicit suppressor T-lymphocytes so to suppress
immunity against the antigen in the subject.